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(71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA as represented by THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, c/o Centers for Disease Control and Prevention, Technology Transfer Office [US/US]; Atlanta, GA 30329 (US).			
(72) Inventors; and			
(75) Inventors/Applicants (for US only): MORRISON, Christine, J. [US/US]; 3110 Tolbert Drive, Decatur, GA 30033 (US). REISS, Errol [US/US]; 3642 Castaway Court, Chamblee, GA 30341 (US). AIDOREVICH, Lilitana [VE/VE]; Calle Circunvalación, Manzana B7 #16 Urlo, El Castan Maracay Edo Aragua (VE). CHOI, Jong, Soo [KR/KR]; 202-1506, Sinchungi-Town Apartment, Whangum-dong, Susung-gu, Taegu City 706-040 (KR).			
(74) Agents: WARREN, William, L. et al.; Jones & Askew, 37th floor, 191 Peachtree Street, N.E., Atlanta, GA 30303 (US).			
(54) Title: NUCLEIC ACIDS FOR DETECTING <i>ASPERGILLUS</i> SPECIES AND OTHER FILAMENTOUS FUNGI			
(57) Abstract  Nucleic acids for detecting <i>Aspergillus</i> species and other filamentous fungi are provided. Unique internal transcribed spacer 2 coding regions permit the development of nucleic acid probes specific for five different species of <i>Aspergillus</i> , three species of <i>Fusarium</i> , four species of <i>Mucor</i> , two species of <i>Penicillium</i> , five species of <i>Rhizopus</i> , one species of <i>Rhizomucor</i> , as well as probes for <i>Absidia corymbifera</i> , <i>Cunninghamella elagans</i> , <i>Pseudallescheria boydii</i> , and <i>Sporothrix schenkii</i> . The invention thereby provides methods for the species-specific detection and diagnosis of infection by <i>Aspergillus</i> , <i>Fusarium</i> , <i>Mucor</i> , <i>Penicillium</i> , <i>Rhizopus</i> , <i>Rhizomucor</i> , <i>Absidia</i> , <i>Cunninghamella</i> , <i>Pseudallescheria</i> or <i>Sporothrix</i> in a subject. Furthermore, genus-specific probes are also provided for <i>Aspergillus</i> , <i>Fusarium</i> and <i>Mucor</i> , in addition to an all-fungus nucleic acid probe.			

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